BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Improvements and Asphalting to roads at kondappa layout in chowdeshwari ward no -02 of yelahanka sub division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
		Cum							
	For KERB Stone								
	Upto Vijaya Jyothi School		1	248.00	0.20	0.10	4.96		
							4.96	5421.90	**26892.62**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
2	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
		Nos							
	Upto Vijaya Jyothi School		1	248.00		--	248.00		
							248.00		
							551.00	432.48	**238296.48**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
3	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6 (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
		Sqm							
	Upto Vijaya Jyothi School		1	248.00		0.35	86.80		
							86.80	84.80	**7360.64**
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
4	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	missing/damaged from item no.01		50	0.60	0.90		27.00		
							27.00	2337.00	**63099.00**
5	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	For Asphalt Road, Bad Reach	Cum							
	Masjidh Road								
	Upto Railway Track		1	324.00	1.50	0.15	72.90		

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	Continued upto Vijaya Jyothi School		1	141.00	1.20	0.15	25.38		
			1	117.00	1.25	0.15	21.94		
	Basic Rate Rs.=	1882.00					120.22	1994.92	239824.3
	Add 6% A.W Rs. =	112.92							
	Total Rate Rs. =	**1994.92**							
6	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	For Asphalt Road, Bad Reach	Cum							
	Masjidh Road								
	Upto Railway Track								
	Continued upto Vijaya Jyothi School		1	324.00	1.20	0.230	89.42		
			1	141.00	1.20	0.230	38.92		
			1	117.00	1.25	0.230	33.64		
	Basic Rate Rs.=	1888.00					161.98	2001.28	324162.33
	Add 6% A.W Rs. =	113.28							
	Total Rate Rs. =	**2001.28**							
7	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	For Asphalt Road, Bad Reach	Sqm							
	Masjidh Road								
	Upto Railway Track								
	Continued upto Vijaya Jyothi School		1	324.00	1.20		388.80		
			1	141.00	1.20		169.20		
			1	117.00	1.25		146.25		
	Basic Rate Rs.=	27.00					704.25	28.62	20155.64
	Add 6% A.W Rs. =	1.62							
	Total Rate Rs. =	**28.62**							
8	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	For Asphalt Road, Bad Reach	Cum							
	Masjidh Road								
	Upto Railway Track								
	Continued upto Vijaya Jyothi School		1	324.00	1.20	0.05	19.44		
			1	141.00	1.20	0.05	8.46		
			1	117.00	1.25	0.05	7.31		
	Basic Rate Rs.=	6224.00					35.21	6597.44	232312.36
	Add 6% A.W Rs. =	373.44							
	Total Rate Rs. =	**6597.44**							
9	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	For Asphalt Road	Sqm							
	Masjidh Road								
	Upto Railway Track		1	324.00	6.60		2138.40		

Particulars	Page No

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Continued upto Vijaya Jyothi School		1	141.00	7.50		1057.50		
			1	117.00	11.30		1322.10		
	Basic Rate Rs.=	12.00					**4518.00**	12.72	**57468.9**
	Add 6% A.W Rs. =	0.72							
	Total Rate Rs. =	**12.72**							
10	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)								
	For Asphalt Road								
	Masjidh Road	Cum							
	Upto Railway Track								
	Continued upto Vijaya Jyothi School		1	324.00	6.60	0.04	85.54		
			1	141.00	7.50	0.04	42.30		
			1	117.00	11.30	0.04	52.88		
	Basic Rate Rs.=	7315.00					**180.72**	7753.90	**1401284.81**
	Add 6% A.W Rs. =	438.90							
	Total Rate Rs. =	**7753.90**							
11	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	For Asphalt Road								
	Masjidh Road	Sqm							
	Upto Railway Track								
	Continued upto Vijaya Jyothi School		2.5	324.00	0.10		81.00		
			2.5	141.00	0.10		35.25		
			2.5	117.00			29.25		
	Basic Rate Rs.=	429.00					145.50	454.74	66164.67
	Add 6% A.W Rs. =	25.74							
	Total Rate Rs. =	**454.74**							
	Add GST @ 12%							Sub Total 1 Rs.	2677021.80
	Miscellaneous & Rounding off							Sub Total 2 Rs.	321242.62
									2998264.42
								Total Rs.	1735.58
									3000000.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3 The Provisions made in the estimate are quite necessary and reasonable.
4 The area comes with in the BBMP limits.

Administrative Approval
Accorded For Rs 30 lakhs only
Head of A/C...P3726
CER NO :129 Dt:25-03-2020
TA ICE (YNK)

Technical Sanction
Accorded For Rs 30 lakhs only
Head of A/C...P3726
CER NO :333 Dt:29.03.2020
TA ICE (YNK)

Assistant Engineer
Ward 02
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

KONDAPPA LAYOUT

L-258m

Vijaya jyothi school

Emmanual Full Gospel Church

N

W

E

S

Kelahan

Maruthi Medical Store

Railway track

Yelahanka Junction
ಯಲಹಂಕ ಜಂ.

L-324m

BBMP office

Jai Lakshmi Textiles

Sri Chowdeshwari Devi Temple...

Masadi road

Tank Bund Rd

Venugopala Swamy Temple
ವೇಣುಗೋಪಾಲ ಸ್ವಾಮಿ...

Matrix Abacus - Yelahanka old Town

Yelahanka Railway

Shri Nagaraj
Swamy Temple

Page No

CLIENT
BRUHAT BANGALORE MAHANAGARA PALIKE

CONSULTANT:-
Silicon Consulting Engineers
#S1317, 4th CROSS BEL
2nd STAGE BHARATH NAGAR
BANGALORE 560 091
E-mail siliconcivilengineers@gmail.com

Assitante Engineer

Assitante Executive Engineer

Improvements to roads and drains at Kondappa Layout in Chowdeshwari ward no 02 of Yelahanka sub Division.

Date